

'N THE UNITED STATES PATENT AND TRADEMARK OFFICE

Hidetoshi KOIKE et al.

Title:

SEMICONDUCTOR DEVICE AND METHOD OF

FABRICATING THE SAME

Appl. No.:

10/676,123

Filing Date: 10/02/2003

Examiner:

Unassigned

Art Unit:

2811

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56

Mail Stop AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of a document known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a prima facie art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed document is being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

In a counterpart Chinese application, a Chinese Office Action issued on April 2, 2004. According to an English translation obtained by Applicants' representative of the Chinese Office Action, the Chinese Patent Office made certain characterizations of the reference.

For the Examiner's convenience attached is a partial English translation of the Chinese Office Action.

The disclosure of these characterizations should not be construed as an admission of or agreement to the opinions expressed in the Chinese Office Action.

An English translation of the foreign-language document is not readily available. However, the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language document (37 CFR §1.98 and MPEP §609). An English language abstract is provided herewith.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or

even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date July 2, 2004

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MODIFIED PTO/SB/08 (08-00)

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U.S. PATENT DOCUMENTS						
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	NON PATENT LITERATURE DOCUMENTS					
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Translation of Chinese Office Action issued on April 2, 2004 (Serial No. 10/676,123 – Our Ref: 16887-1092)

Page 1, paragraph 4

Claim 4 is dependent on Claim 1, which limits the technical specification to "said electrode portion further has a metal nitride portion". However, these characters have been published in reference 2 (see Description paragraphs 38-50). Furthermore, its function disclosed in this invention is the same as described in reference 2, which is to be used in a barrier layer and a glue layer. Therefore, reference 2 implied the use of the device claimed to solve the technical problem. Combined with the disclosures in reference 1, the claimed device is obvious for a person with ordinary skill in the art. Since the said claim is lack of novelty, it does not have the "creativity" required by Patent Law 22.3

Page 1, paragraph 5

Claim 5 is dependent on Claim 4, which further limits the technical specification to "said metal nitride portion is formed between said polysilicon portion and said metal portion". This is also disclosed in reference 2 (see Description paragraphs 38-50). In addition, the function disclosed in this invention is the same as in the reference, which is to prevent diffusion of the metal to the polysilicon layer. Since claim 4 is lack of creativity, claim 5, which is dependent on claim 4, is also lack of creativity as required by the Patent Law 22.3.